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- 1 1. A multiple die package comprising:
 2 a pair of dies having bonding pads and front
 3 surfaces on which said bonding pads are located, said front
 4 surfaces facing oppositely from one another; and
 5 a leadframe, at least one of said dies secured
 6 on said leadframe and with a bonding pad of one of said dies
- 1 2. The package of claim 1, wherein said dies are 2 stacked one on top of the other.

electrically connected to said leadframe.

- 3. The package of claim 2, wherein said leadframe
 is secured to one of said dies.
- 1 4. The package of claim 2, wherein each of said 2 dies includes a back surface opposite to said front surface, 3 said back surface of each of side dies connected to one 4 another.
 - 5. The package of claim 2, wherein each of said dies includes a back surface opposite to said front surface, said back surface of each die facing one another, each of said back surfaces connected to said leadframe.
- 1 6. The package of claim 2, wherein each of said 2 dies are secured to said leadframe.
- 7. The package of claim 6, wherein each of said dies are secured to said leadframe at a different location.
- 1 8. The package of claim 6, wherein leadframe 2 includes an offset.

- 9. The package of claim 8, wherein each of said dies is connected to the same side of said leadframe.
- 1 10. The package of claim 8, wherein each of said 2 dies is connected to a different side of said leadframe.
- 1 11. A multiple die package comprising:
- a pair of dies having bonding pads and front
- 3 surfaces on which said bonding pads are located, said front
- 4 surfaces facing in the same direction;
- a leadframe, at least one of said dies secured
- 6 to said leadframe; and
- 7 a spacer for spacing said dies from one
- 8 another.
- 1 12. The package of claim 11, wherein said spacer is
- 2 secured to said leadframe and one of said dies is secured to
- 3 said spacer.
- 1 13. The package of claim 11, wherein said spacer is
- 2 integral with said leadframe.
- 1 14. The package of claim 13, wherein said spacer is
- 2 formed by an offset portion of said leadframe.
- 1 15. A method for mounting multiple semiconductor
- 2 dies on a single leadframe, comprising:
- 3 stacking at least two semiconductor dies having
- 4 substantially the same rectangular dimensions on top of one
- 5 another; and
- 6 electrically connecting the semiconductor dies
- 7 to the leadframe.

- 1 16. The method of claim 15, wherein a first
- 2 semiconductor die is mounted back to back on a second
- 3 semiconductor die.
- 1 17. The method of claim 16, wherein the first
- 2 semiconductor die is adhered to the second semiconductor die
- 3 by an adhesive layer.
- 1 18. The method of claim 15, wherein a first
- 2 semiconductor die has a lead-on-chip configuration.
- 1 19. The method of claim 15, wherein one of said
- 2 dies is secured to said leadframe and the other of said dies
- 3 is secured to the die secured to the leadframe.
- 1 20. The method of claim 15, further comprising
- 2 wirebonding the semiconductor dies to the leadframe, said
- 3 dies having facing sides and outwardly facing sides by
- 4 extending wires to bond pads on the outwardly facing sides
- 5 of said die.
- 1 21. A method of connecting multiple semiconductor
- 2 dies having bonding pads and a single leadframe having lead
- 3 fingers, comprising:
- 4 locating a first semiconductor die on the lead
- 5 fingers of the leadframe;
- 6 stacking a second semiconductor die on said
- 7 first semiconductor die; and
- 8 electrically connecting the bonding pads of the
- 9 semiconductor dies to the lead fingers of the leadframe.

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The method of claim 21, further comprising 1 encapsulating the semiconductor dies and the leadframe in a 2 3 single package body. 1 A semiconductor device, comprising: 2 a plurality of semiconductor dies having about 3 the same rectangular dimensions; a leadframe having lead fingers to which the 4 5 semiconductor dies are mounted; and 6 connectors for electrically connecting the dies 7 to the leadframe. 1 The semiconductor device of claim 23, further 2 comprising: 3 a first semiconductor die mounted to a first 4 side of the leadframe; and 5 a second semiconductor die mounted to a second, 6 different side of the leadframe. 1 The semiconductor device of claim 23, wherein the lead fingers have a first portion and a second portion, further comprising: a first semiconductor die mounted on a first 5 portion of the lead fingers; and 6 a second semiconductor die mounted on a second,

different portion of the lead fingers, wherein the second

portion is offset from the first portion.

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The semiconductor device of claim 23, further 1 26. 2 comprising: 3 a support member mounted to a first side of the 4 leadframe; 5 a first semiconductor die mounted onto the 6 support frame; and 7 a second semiconductor die mounted to a second, different side of the leadframe. 8 1 A package for multiple semiconductor dies, 2 comprising: 3 a plurality of semiconductor dies stacked one 4 on top of the other; a leadframe having lead fingers on which the 5 6 semiconductor dies are mounted; and 7 a package body for hermetically encapsulating 8 the semiconductor dies and the leadframe. A semiconductor device, comprising: a leadframe having a first surface, a second surface opposite said first surface, and lead fingers; a first die located on the first surface, the first die having bond pads which are electrically contacted to the lead fingers on the first surface of the leadframe; 6 7 and 8 a second die located on the second surface, the second die having bond pads which are electrically contacted 9

to the lead fingers on the second surface of the leadframe.

- 29. An integrated circuit package, comprising:
 a leadframe having first and second surfaces;
 a support member mounted to a first surface of
 the leadframe;
 a first die mounted to the support member; and
 a second die mounted to a second surface of the
 leadframe.
- 1 30. The integrated circuit package of claim 29, 2 wherein the support member is made of an electrically non-3 conductive material.
- 1 31. The integrated circuit package of claim 29, 2 wherein each die has bond pads mounted on and a surface on 3 which said bond pads are mounted, said surfaces of each die 4 facing in the same direction.